Figure 1

(a) carbohydrate phosphotransferase; (b) KDPGal aldolase, D-erythrose 4-phosphate; (c) DAHP synthase, D-erythrose 4-phosphate; (d) shikimate pathway enzymes

Figure 2

Figure 3

Plasmid (size)	Plasmid Map ^a	
pNR5:223	X X	_X
(4.5-kb)	kan ^R Ap ^R Plac EC dgo	Α
pNR7.088	P B	L ₀
(4.8-kb)	Ap ^R lacl ^Q P _{trc} EC dgc	A
pNR7.118	P B	٦,
(5.9-kb)	Ap ^R laci ^Q P _{tac} EC dgc	ρA
pNR6.252	EE_	_ E_
(5.9-kb)	Ap ^R lacl ^Q P _{tac} KP dgc	
pNR7.126	<u> </u>	
(6.4-kb)	Ap ^R lacl ^Q P _{tac} aroF ^{FBR}	
pNR7.288	N N E (Bg) (Bg) E K (S	5) N
(8.5-kb)	ApR Plac (aroF) cat (aroF) aroE serA	
pNR7.297	B	_B
(5.2-kb)	Cm ^R P _{lac} (aroG) tet (aroc	<u>-</u>
pNR7.290	<u> </u>	H_
(6.8-kb)	Ap ^R laci ^Q P _{trc} (aroH) Kan ^R (aroH	> 1)
pKP03-3	E E	·в
(5.9-kb)	Ap ^R lacl ^Q P _{tac} KP03-	≻ 3
pEC03-1	P 8	<u>٦</u>
(4.8-kb)	Ap ^R laci ^Q P _{trc} EC03-	> 1
pNR8.074	(번) 톤 톤	(H
(7.5-kb)	Ap ^R lacl ^O P _{tac} KP dgoA serA	_
pKP03-3serA	(번) 돈 분	(H
(7.5-kb)	Ap ^R laci ^Q P _{tac} KP03-3 serA	_
pNR8.075	(년) 원 무	(H
, (6.8-kb)	Ap ^R lacl ^Q P _{trc} EC dgoA serA	
pEC03-1serA	(H) B P	(Ḥ
(6.8-kb)	Ap ^R lacl ^Q P _{trc} EC03-1 serA	_
	AP INCIP TIE COUST SER	

Figure 4

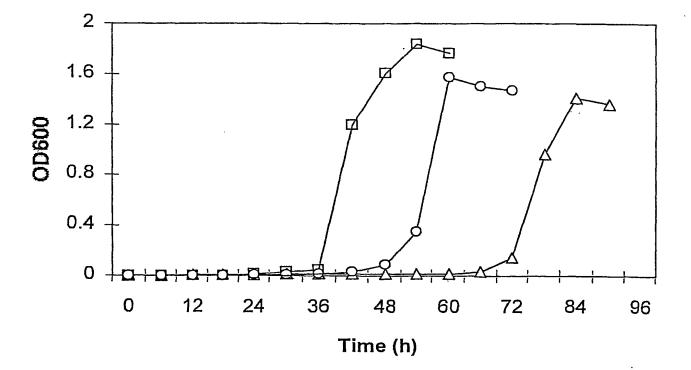


Figure 5

